



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Karandikar et al.
Serial No.: 10/073,818
Filed: February 11, 2002
For: Low Expansion Metal-Ceramic Composite Bodies, and Methods for Making Same

Group Art Unit: 2164
Attorney Docket No.: M-102-A

Assistant Commissioner for Patents
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

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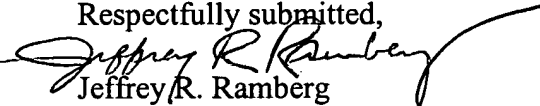
Dear Sir:

Pursuant to 37 C.F.R. §1.56, applicants hereby call the attention of the U.S. Patent and Trademark Office to the references listed on the attached Form PTO-1449. The instant application is a Continuation-in-Part of Application Serial No. 09/378,367, filed on August 20, 1999. Applicants attach one copy of each reference that they have not already provided to the Office previously during the proceedings in this parent patent application.

Applicants present these references to the U. S. Patent and Trademark Office because the Office may deem that the references may be material to patentability. Applicants respectfully request that these references be expressly considered during the prosecution of this application and be made of record herein and appear on the "References Cited" section on any patent to issue herefrom.

Should the Examiner have any questions regarding any of these references, the Examiner is invited to telephone applicants' undersigned representative.

Respectfully submitted,


Jeffrey R. Ramberg
Reg. No. 34,700

September 4, 2002
M Cubed Technologies, Inc.
1 Tralee Industrial Park
Newark, DE 19711
Tel: (302) 454-8600 ext. 319
Fax: (302) 454-8605

Enclosure: Form PTO-1449 with one copy of each reference not previously submitted



Please type a plus sign (+) inside this box → ☐

PTO/SB/08A (10-96)

Approved for use through 10/31/99. OMB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Application Number	10/073,818
				Filing Date	February 11, 2002
				First Named Inventor	Karandikar, P.
				Group Art Unit	2164
Sheet	1	of	3	Examiner Name	
				Attorney Docket Number	M-102-A

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ²			
		3,622,283		Sara	11-23-1971	
		3,766,000		Gibson et al.	10-16-1973	
		3,807,996		Sara	04-30-1974	
		3,994,867		Baughman et al.	11-30-1976	
		4,005,183		Singer	01-25-1977	
		4,083,719		Arakawa et al.	04-11-1978	
		4,157,409		Levitt et al.	06-5-1979	
		4,376,803		Katzman	03-15-1983	
		4,451,118		Stalcup et al.	05-29-1984	
		4,535,035		Smialek, et al.	08-13-1985	
		4,791,076		Leggett, deceased, et al.	12-13-1988	
		4,804,586		Tanaka et al.	02-14-1989	
		4,944,904		Singh et al.	07-31-1990	
		5,015,540		Borom	05-14-1991	
		5,330,807		Williams	07-19-1994	
		5,834,115		Weeks, Jr. et al.	11-10-1998	
		5,993,934		Reese et al.	11-30-1999	

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FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
		Office ³	Number ⁴	Kind Code ⁵			
		DE	197 11 831	A1	Daimler-Benz	09-24-1998	
		EP	1,124,074		Brembo	08-16-2001	

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

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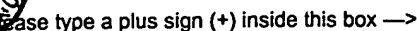
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PATENT

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Application No.: 10/073,818 Group Art Unit: 2164
Filing Date: February 11, 2002 Atty Docket No.: M-102-A
First Named Inventor: Karandikar, P.
Title: Low Expansion Metal-Ceramic Composite Bodies, and Methods for Making Same

Assistant Commissioner for Patents
Washington, D.C. 20231

Certificate of Mailing Under 37 CFR 1.8

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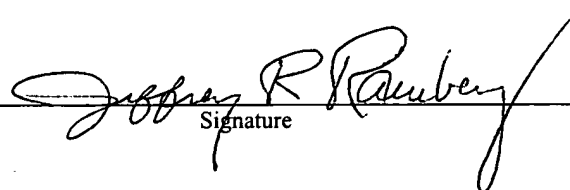
Information Disclosure Statement

Transmittal

Fee Transmittal

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Jeffrey R. Ramberg

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2164

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TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Application Number	10/073,818
Filing Date	02/11/2002
First Named Inventor	Karandikar, Prashant G.
Group Art Unit	2164
Examiner Name	
Attorney Docket Number	M-102-A

Total Number of Pages in This Submission **7**

ENCLOSURES (check all that apply)

- ☒ Fee Transmittal Form
- ☐ Fee Attached
- ☐ Amendment / Reply
- ☐ After Final
- ☐ Affidavits/declaration(s)
- ☐ Extension of Time Request
- ☐ Express Abandonment Request
- ☒ Information Disclosure Statement
- ☐ Certified Copy of Priority Document(s)
- ☐ Response to Missing Parts/ Incomplete Application
- ☐ Response to Missing Parts under 37 CFR 1.52 or 1.53

- ☐ Assignment Papers (for an Application)
- ☐ Drawing(s)
- ☐ Licensing-related Papers
- ☐ Petition
- ☐ Petition to Convert to a Provisional Application
- ☐ Power of Attorney, Revocation Change of Correspondence Address
- ☐ Terminal Disclaimer
- ☐ Request for Refund
- ☐ CD, Number of CD(s) _____

- ☐ After Allowance Communication to Group
- ☐ Appeal Communication to Board of Appeals and Interferences
- ☐ Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
- ☐ Proprietary Information
- ☐ Status Letter
- ☒ Other Enclosure(s) (please identify below):
 - (1) Certificate of Mailing
 - (2) Return Receipt Postcard

Remarks

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SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm
or
Individual name

Jeffrey R. Ramberg Reg. No. 34,700

Signature

Date

09/04/2002

CERTIFICATE OF MAILING

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09/04/2002

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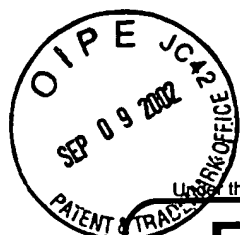
Jeffrey R. Ramberg

Signature

Date

09/04/2002

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FEE TRANSMITTAL for FY 2002

Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT (\$) 0.00

Compleat if Known

Application Number	10/073,818
Filing Date	02/11/2002
First Named Inventor	Karandikar, Prashant G.
Examiner Name	
Group Art Unit	2164
Attorney Docket No.	M-102-A

METHOD OF PAYMENT

1. ☐ The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:

Deposit Account Number: 50-1020
Deposit Account Name: Jeffrey R. Ramberg, Esq.

- ☒ Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17
☒ Applicant claims small entity status. See 37 CFR 1.27

2. ☐ Payment Enclosed:

☐ Check ☐ Credit card ☐ Money Order ☐ Other

FEE CALCULATION

1. BASIC FILING FEE

Large Entity Code	Large Entity Fee (\$)	Small Entity Code	Small Entity Fee (\$)	Fee Description	Fee Paid
101	740	201	370	Utility filing fee	
106	330	206	165	Design filing fee	
107	510	207	255	Plant filing fee	
108	740	208	370	Reissue filing fee	
114	160	214	80	Provisional filing fee	

SUBTOTAL (1) (\$) 0.00

2. EXTRA CLAIM FEES

Total Claims: -20** = X =
Independent Claims: -3** = X =
Multiple Dependent: =

Large Entity Code	Large Entity Fee (\$)	Small Entity Code	Small Entity Fee (\$)	Fee Description
103	18	203	9	Claims in excess of 20
102	84	202	42	Independent claims in excess of 3
104	280	204	140	Multiple dependent claim, if not paid
109	84	209	42	** Reissue independent claims over original patent
110	18	210	9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$) 0.00

**or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)

3. ADDITIONAL FEES

Large Entity Code	Large Entity Fee (\$)	Small Entity Code	Small Entity Fee (\$)	Fee Description	Fee Paid
105	130	205	65	Surcharge - late filing fee or oath	
127	50	227	25	Surcharge - late provisional filing fee or cover sheet	
139	130	139	130	Non-English specification	
147	2,520	147	2,520	For filing a request for <i>ex parte</i> reexamination	
112	920*	112	920*	Requesting publication of SIR prior to Examiner action	
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action	
115	110	215	55	Extension for reply within first month	
116	400	216	200	Extension for reply within second month	
117	920	217	460	Extension for reply within third month	
118	1,440	218	720	Extension for reply within fourth month	
128	1,960	228	980	Extension for reply within fifth month	
119	320	219	160	Notice of Appeal	
120	320	220	160	Filing a brief in support of an appeal	
121	280	221	140	Request for oral hearing	
138	1,510	138	1,510	Petition to institute a public use proceeding	
140	110	240	55	Petition to revive - unavoidable	
141	1,280	241	640	Petition to revive - unintentional	
142	1,280	242	640	Utility issue fee (or reissue)	
143	460	243	230	Design issue fee	
144	620	244	310	Plant issue fee	
122	130	122	130	Petitions to the Commissioner	
123	50	123	50	Processing fee under 37 CFR 1.17(q)	
126	180	126	180	Submission of Information Disclosure Stmt	
581	40	581	40	Recording each patent assignment per property (times number of properties)	
146	740	246	370	Filing a submission after final rejection (37 CFR § 1.129(a))	
149	740	249	370	For each additional invention to be examined (37 CFR § 1.129(b))	
179	740	279	370	Request for Continued Examination (RCE)	
169	900	169	900	Request for expedited examination of a design application	

Other fee (specify) _____

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$) 0.00

SUBMITTED BY

Name (Print/Type)	Jeffrey R. Ramberg	Registration No. (Attorney/Agent)	34,700	Telephone	(302) 454-8600 x319
Signature	<i>Jeffrey R. Ramberg</i>	Date	09/04/2002		

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